

4.8.12 Order Manager Command Line Utility

The Order Manager Command Line utility provides a mechanism by which the ECS Operations Staff can submit order requests into the Order Manager System (OMS) database directly without knowing whether the Order Manager Server is up or down. The order request submitted by the Command Line utility is in ODL format, which conforms to the Product Request ODL protocol in the ICD Between the EOSDIS Core System (ECS) and the Version 0 System for Interoperability, with a few extensions.

4.8.12.1 Quick Start Using the Order Manager Command Line Utility

To execute the Order Manager Command line utility, use the command line interface command below.

4.8.12.1.1 Invoking Order Manager from the Command Line Interface

To execute the Order Manager from the command line interface, use the Command Line utility syntax provided below:

```
EcSrOmCliDriverStart <MODE > <rootname of ODL files> <numRequest> [<submissionInterval>  
<dbRetries> <dbRetryInterval>]
```

The mode parameter is required to indicate the mode (i.e., OPS, TS1, or TS2) in which the utility is being run. The command line parameters supported are described in Table 4.8.12-1.

Table 4.8.12-1. Order Manager Command Line Parameters

Parameter Name	Required	Description
rootname of ODL files	Yes	Specifies the full pathname of root name of ODL files. For example, if there are two requests to be submitted concurrently, there must be two ODL files with the same root name, say odl.rqst, but different suffixes "0" and "1" for each file (i.e., there must be two files named odl.rqst.0 and odl.rqst.1 on the disk). The root name of ODL files in this case is <fullpath>/odl.rqst. The program automatically appends those suffixes for you, starting from 0.
numRequest	Yes	Specifies the number of requests the Command Line utility submits concurrently.
submissionInterval	No	Specifies how many seconds apart the requests are submitted. The default value 0 means all the requests are submitted with no submission interval (i.e., at the same time).
dbRetries	No	Specifies how many db retries the utility tries when the OMS database is inaccessible. The default value is 2 (times).
dbRetryInterval	No	Specifies how many seconds apart between retries when the OMS database is inaccessible. The default value is 10 (seconds).

4.8.12.1.2 Order Manager Command Line Utility Configuration File

The Command Line Utility has an associated configuration file with values stored in a basic PARAMETER = VALUE format. Table 4.8.12-2 describes its contents:

Table 4.8.12-2. Order Manager Configuration File Parameters

Parameter Name	Value Description
Name	EcOmSrCliDriver
ProgramID	1300005
ApplicationID	1300000
Site	DAAC Name
SubSystem	OMS
MajorVersion	1
MinorVersion	0
AppLogSize	The maximum ALOG size
AppLogLevel	ALOG level
DebugLevel	Debug log level
Release	B
PrincipalName	EcOmSrCliDriver
SDSRV_SYBASE_SERVER	Name of OMS Sybase SQL Server
SYBINTERFACES	Location of Sybase open client library interface file
DSSSrUNIXEnv	SYBASE DSQUERY
DBMAXRESULTS	Maximum database return rows
DBNAME	OMS database name
DBPASSWDSEED	1300005 (the seed used to get Command Line utility database login password)
DBUSERNAME	OmSrCliDriver (the database login name of Command Line utility)
MAX_DB_CONNECTIONS	The maximum database connections Command Line utility uses to connect to the OMS Database
DSQUERY	Name of SQS Server
SDSRV_DB_MAX_JOINS	Maximum number of database join operations
DSSSrEnv_DB	DBUSERNAME DBPASSWDSEED DBNAME DBMAXRESULTS SYBINTERFACES SDSRV_SYBASE_SERVER SDSRV_DB_MAX_JOINS
DSSSrEnv	\$DSSSrEnv_DB

4.8.12.1.3 ODL Template File

There are brackets ([]), and braces ({ }) around some of the lines and groups. The brackets mean it is optional and subject to change its contents. The braces mean it is not optional but subject to change its contents. The lines or group of lines with no brackets or braces around them mean: “do not change them.”

To use the template file:

Step 1. Copy the template file to a new file.

Step 2. Customize those lines and groups with the brackets or braces in the new file.

Step 3. Remove the brackets and braces around the lines and groups from the new file.

4.8.12.1.4 ODL Template File for “FtpPull” Media Type

```
GROUP = PRODUCT_REQUEST
MESSAGE_ID = "B1027711830"
[REQUEST_ID = "37475:27364"]
```

The above line is optional. If it is there, the value part must be in the format of “order id:request id” which you retrieve from the MSS database, in this case <order id>=37475 and <request id>=27364. If it is not there, command line utility creates an order id and request id for this request.

```
DATA_CENTER_ID = "ECS-TEST"
[ECS_AUTHENTICATOR = "labuser"]
```

The above line is optional. If it is there, the value ought to be a valid ECS user in the ECS User Registration Database. If it is not there, this request is regarded as an “ECSGuest” user.

```
GROUP = USER_AFFILIATION
CATEGORY = "USA"
TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
{
GROUP = CONTACT_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
END_GROUP = CONTACT_ADDRESS
}
```

The above group is not optional, but the contents of each line could be customized.

```
{
GROUP = SHIPPING_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
```

```

END_GROUP = SHIPPING_ADDRESS
}

```

The above group is not optional, but the contents of each line could be customized.

```

{
GROUP = BILLING_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
END_GROUP = BILLING_ADDRESS
}

```

The above group is not optional, but the contents of each line could be customized.

```

GROUP = LINE_ITEM
{DATASET_ID = "LANDSAT-7 LEVEL-0R FLOATING SCENES V002"}
{PACKAGE_ID = "SC:L70R.002:23420"}

```

This line could be changed to the ESDT long name matching with the granule given in the next line.

This line could be customized in the format of "granule type:ESDT shortname:ESDT version id:db id."

```

PROCESSING_OPTIONS = "Native Granule"
{MEDIA_TYPE = "FtpPull"}

```

This line could be customized to any media type such as CDROM, DVD, DLT, or 8MM.

```

{MEDIA_FORMAT = "FILEFORMAT"}

```

This line could be changed to match the media type given in the above line.

```

EST_COST = 777.88
[
GROUP = SUBSET_SPEC
GROUP = SPECIALIZED_CRITERIA
CRITERIA_NAME = "Band Subsetting"
CRITERIA_TYPE = "STRING"
CRITERIA_VALUE = ("QA_BAND2_PRESENT", "QA_BAND3_PRESENT",
"QA_BAND4_PRESENT", "QA_BAND5_PRESENT", "QA_BAND6_PRESENT_F1",
"QA_BAND6_PRESENT_F2", "QA_BAND7_PRESENT", "QA_BAND8_PRESENT")
END_GROUP = SPECIALIZED_CRITERIA
GROUP = SPECIALIZED_CRITERIA
CRITERIA_NAME = "Spatial Subsetting"
CRITERIA_TYPE = "GEO"
CRITERIA_VALUE = "BY_POLYGON_LOC"
GROUP = POLYGON_LOC
TANGENT_LATITUDE = 81.8895
TANGENT_LONGITUDE = 158.423
MAP_PROJECTION_TYPE = "ORTHOGRAPHIC"
LATITUDE = (83.2017, 81.4847, 80.4686, 81.8274)
LONGITUDE = (-175.078, -176.234, 155.986, 151.309)
WG_ZOOM = 2
END_GROUP = POLYGON_LOC
END_GROUP = SPECIALIZED_CRITERIA
GROUP = SPECIALIZED_CRITERIA

```

```

        CRITERIA_NAME = "Scan Line Size"
        CRITERIA_TYPE = "INTEGER"
        CRITERIA_VALUE = 1104
        END_GROUP = SPECIALIZED_CRITERIA
    END_GROUP = SUBSET_SPEC
]
This group is optional, indicates the subset option goes along with this granule.
    GROUP = PATH_ROW_LOC
        PATH = (119)
        ROW = (233)
    END_GROUP = PATH_ROW_LOC
    GROUP = POLYGON_LOC
        LATITUDE = (70.31, 69.6, 64.78, 65.36)
        LONGITUDE = (-80.91, -85.44, 136.97, 133.18)
        CENTROID_LAT = 81.94
        CENTROID_LON = -170.59
        POLE_INCLUDED = "X"
    END_GROUP = POLYGON_LOC
    END_GROUP = LINE_ITEM
The LINE_ITEM group could be repeated if there are more granules to be ordered in one request.
    GROUP = MONITOR
        SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
        TX_CLIENT = ("1027711832", "939137")
    END_GROUP = MONITOR
    GROUP = VERSION
        SENDER_VERSION = "imswww-3_4b_6"
        PROTOCOL_VERSION = 3.2
        IMS_STAFF = "1"
    END_GROUP = VERSION
    [PRIORITY = "HIGH"]
This line is optional. The default is LOW with the possible values being LOW, NORMAL, HIGH, VHIGH and XPRESS.
    [USERSTRING = "TESTFOR"]
This line is optional. But if it is there, the length must be less than 80 characters.
    [NOTIFY = "zyu@eos.hitc.com"]
This line is optional. But if it is there, the length must be less than 255 characters.
    [DDISTNOTIFYTYPE = "MAIL"]
This line is optional.
    END_GROUP = PRODUCT_REQUEST
END

```

4.8.12.1.5 ODL Template File for "FtpPush" Media Type

```

GROUP = PRODUCT_REQUEST
    MESSAGE_ID = "B1027711830"
    [REQUEST_ID = "37475:27364"]
    DATA_CENTER_ID = "ECS-TEST"
    [ECS_AUTHENTICATOR = "labuser"]
    GROUP = USER_AFFILIATION
        CATEGORY = "USA"
        TYPE = "GOVERNMENT"
    END_GROUP = USER_AFFILIATION
{
    GROUP = CONTACT_ADDRESS
        TITLE = ""
        FIRST_NAME = "Yu"
        MIDDLE_INITIAL = ""

```

```

    LAST_NAME = "Zhongfei"
    ORGANIZATION = ""
    ADDRESS = ("abcd")
    CITY = "Landover"
    STATE = "MD"
    ZIP = ""
    COUNTRY = "UNITED STATES"
    PHONE = "301-925-1042"
    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
END_GROUP = CONTACT_ADDRESS
}
{
GROUP = SHIPPING_ADDRESS
    TITLE = ""
    FIRST_NAME = "Yu"
    MIDDLE_INITIAL = ""
    LAST_NAME = "Zhongfei"
    ORGANIZATION = ""
    ADDRESS = ("abcd")
    CITY = "Landover"
    STATE = "MD"
    ZIP = ""
    COUNTRY = "UNITED STATES"
    PHONE = "301-925-1042"
    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
END_GROUP = SHIPPING_ADDRESS
}
{
GROUP = BILLING_ADDRESS
    TITLE = ""
    FIRST_NAME = "Yu"
    MIDDLE_INITIAL = ""
    LAST_NAME = "Zhongfei"
    ORGANIZATION = ""
    ADDRESS = ("abcd")
    CITY = "Landover"
    STATE = "MD"
    ZIP = ""
    COUNTRY = "UNITED STATES"
    PHONE = "301-925-1042"
    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
END_GROUP = BILLING_ADDRESS
}
GROUP = LINE_ITEM
{DATASET_ID = "JPL-GENERATED ASTER LEVEL 1B DATA - THERMAL IR CHANNELS ONLY
V001"}
{PACKAGE_ID = "SC:AST_L1BT.001:7644"}
PROCESSING_OPTIONS = "Native Granule"
{MEDIA_TYPE = "FtpPush"}
{MEDIA_FORMAT = "FILEFORMAT"}
EST_COST = 777.88

```

```

GROUP = ORDER_SPEC
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPHOST"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "origin"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPPASSWORD"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "Sept6A02"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPPUSHDEST"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "/devdata1/DEV01/PushArea"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPUSER"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "labuser"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "USERSTRING"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "ABCD"}
  END_GROUP = SPECIALIZED_CRITERIA
END_GROUP = ORDER_SPEC

```

The **ORDER_SPEC** group is designed for specifying all the FtpPush parameters, it must be there for the FtpPush Media Type.

```

  GROUP = RANGE_LOC
    NORTH_LATITUDE = 10.12
    WEST_LONGITUDE = -130.12
    SOUTH_LATITUDE = -10.12
    EAST_LONGITUDE = 63.1
  END_GROUP = RANGE_LOC
END_GROUP = LINE_ITEM
GROUP = MONITOR
  SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
  TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
  SENDER_VERSION = "imswww-3_4b_6"
  PROTOCOL_VERSION = 3.2
  IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]
[USERSTRING = "TESTFOR"]
[NOTIFY = "zyu@eos.hitc.com"]
[DDISTNOTIFYTYPE = "MAIL"]
END_GROUP = PRODUCT_REQUEST
END

```

4.8.12.1.6 ODL Template File for “CDROM” Media Type

```

GROUP = PRODUCT_REQUEST
  MESSAGE_ID = "B1027711830"

```

```

[REQUEST_ID = "37475:27364"]
DATA_CENTER_ID = "ECS-TEST"
[ECS_AUTHENTICATOR = "labuser"]
GROUP = USER_AFFILIATION
  CATEGORY = "USA"
  TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
{
GROUP = CONTACT_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
END_GROUP = CONTACT_ADDRESS
}
{
GROUP = SHIPPING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
END_GROUP = SHIPPING_ADDRESS
}
{
GROUP = BILLING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"

```

```

    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
    END_GROUP = BILLING_ADDRESS
}
GROUP = LINE_ITEM
{DATASET_ID = "JPL-GENERATED ASTER LEVEL 1B DATA - THERMAL IR CHANNELS ONLY
V001"}
{PACKAGE_ID = "SC:AST_L1BT.001:7644"}
PROCESSING_OPTIONS = "Native Granule"
{MEDIA_TYPE = "CDROM"}
The above line specifies the CDROM media type, and the next line specifies the matching media format.
{MEDIA_FORMAT = "RockRidge"}
EST_COST = 777.88
END_GROUP = LINE_ITEM
GROUP = MONITOR
SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
SENDER_VERSION = "imswww-3_4b_6"
PROTOCOL_VERSION = 3.2
IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]
[USERSTRING = "TESTFOR"]
[NOTIFY = "zyu@eos.hitc.com"]
[DDISTNOTIFYTYPE = "MAIL"]
END_GROUP = PRODUCT_REQUEST
END

```

4.8.12.1.7 ODL Template File for DataPool-Only Granules

```

GROUP = PRODUCT_REQUEST
MESSAGE_ID = "B1027711830"
[REQUEST_ID = "37475:27364"]
DATA_CENTER_ID = "ECS-TEST"
[ECS_AUTHENTICATOR = "labuser"]
[METADATA_FLAG = "Y"]

```

The above line specifies the whether the Meta Data file associated with the granule in LINE_ITEM group is ordered or not.

```

GROUP = USER_AFFILIATION
CATEGORY = "USA"
TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
{
GROUP = CONTACT_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
}

```

```

        PHONE = "301-925-1042"
        FAX = ""
        EMAIL = "zyu@eos.hitc.com"
    END_GROUP = CONTACT_ADDRESS
}
{
    GROUP = SHIPPING_ADDRESS
        TITLE = ""
        FIRST_NAME = "Yu"
        MIDDLE_INITIAL = ""
        LAST_NAME = "Zhongfei"
        ORGANIZATION = ""
        ADDRESS = ("abcd")
        CITY = "Landover"
        STATE = "MD"
        ZIP = ""
        COUNTRY = "UNITED STATES"
        PHONE = "301-925-1042"
        FAX = ""
        EMAIL = "zyu@eos.hitc.com"
    END_GROUP = SHIPPING_ADDRESS
}
{
    GROUP = BILLING_ADDRESS
        TITLE = ""
        FIRST_NAME = "Yu"
        MIDDLE_INITIAL = ""
        LAST_NAME = "Zhongfei"
        ORGANIZATION = ""
        ADDRESS = ("abcd")
        CITY = "Landover"
        STATE = "MD"
        ZIP = ""
        COUNTRY = "UNITED STATES"
        PHONE = "301-925-1042"
        FAX = ""
        EMAIL = "zyu@eos.hitc.com"
    END_GROUP = BILLING_ADDRESS
}
    GROUP = LINE_ITEM

```

```

        {DATASET_ID = "Non-ECS granule"}
        {PACKAGE_ID = "WB:AST_L1BT.001:7644"}

```

The above line specifies the DataPool-only granule, the granule type must be "WB"

```

        PROCESSING_OPTIONS = "Native Granule"
        {MEDIA_TYPE = "8MM"}
        {MEDIA_FORMAT = "TARFORMAT"}
        EST_COST = 777.88
    END_GROUP = LINE_ITEM
    GROUP = LINE_ITEM
        {DATASET_ID = "JPL-GENERATED ASTER LEVEL 1B DATA - THERMAL IR
CHANNELS ONLY V001"}
        {PACKAGE_ID = "DP:AST_L1BT.001:7645"}
        PROCESSING_OPTIONS = "Native Granule"
        {MEDIA_TYPE = "8MM"}
        {MEDIA_FORMAT = "TARFORMAT"}

```

```

        EST_COST = 777.88
END_GROUP = LINE_ITEM
GROUP = MONITOR
    SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
    TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
    SENDER_VERSION = "imswwww-3_4b_6"
    PROTOCOL_VERSION = 3.2
    IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]
[USERSTRING = "TESTFOR"]
[NOTIFY = "zyu@eos.hitc.com"]
[DDISTNOTIFYTYPE = "MAIL"]
END_GROUP = PRODUCT_REQUEST
END

```

4.8.12.1.8 Examples

Example 1

EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 1

This means one file called **odl.rqst.0** in directory /usr/ecs/<MODE>/CUSTOM/data/OMS/template/

Example 2

EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 10

This means ten files must be named, **odl.rqst.0, odl.rqst.1, odl.rqst.2, odl, rqst.3, odl.rqst.4, odl.rqst.5, odl.rqst.6, odl.rqst.7, odl.rqst.8, odl.rqst.9** in directory /usr/ecs/<MODE>/CUSTOM/data/OMS/template/

Example 3

EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 3 5

There are 3 requests to be submitted with 5 seconds submission interval.

Example 4

EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 3 5
10 20

There are 3 requests to be submitted with 5 seconds submission interval and 5 db retries and 20 seconds db retry interval if database is inaccessible.

4.8.12.2 Order Manager Command Line Utility Main Screen

There is no main screen for this utility. This is a command line interface only.

4.8.12.3 Required Operating Environment

The Command Line Utility runs on the Linux 2.x platforms.

4.8.12.4 Databases

Table 4.8.12-3 lists the databases, stored procedures and tables used by the Command Line utility.

Table 4.8.12-3. Order Manager Data Bases

Database	Stored Procedure	Table(s)
EcOmDB_<MODE>	OmCreateRequest	OmRequest
		OmRequestOptions
	OmInsertGranule	OmGranule
	OmInsertSubSetInfo	OmSubSettingInfo
	OmInsertAction	OmActionQueue
mss_acct_db_<MODE>		EcAcRequest
		EcAcAddress

4.8.12.5 Special Constraints

Table 4.8.12-4 lists the COTS product dependencies for the Command Line Utility.

Table 4.8.12-4. Order Manager COTS Products Dependencies

Product Dependency	Protocols Used	Comments
OMS Database	SQL	Via SQL server machine
Sybase Open Client library	Sybase client/server communication	Requires proper baseline version of Open Client library

4.8.12.6 Outputs

The Command Line Utility does not produce any reports but sends messages to the operator via a log file.

4.8.12.7 Event and Error Messages

The Command Line Utility writes information useful to the operator to a log file. The file is stored in the /usr/ecs/<MODE>/CUSTOM/logs directory and is named EcOmSrCliDriverDebug.log and EcOmSrCliDriver.ALOG. The utility renames the debug log

and ALOG files to the name with current time stamp suffixes if they already exist and create new debug log and ALOG files.

There are two types of messages written to the utility's log file: errors and informative messages. Error messages include information about program internal/external faults, unplanned disconnects with the Sybase Server, general database errors, unable to open ODL files due permission or nonexistence, and configuration file problems. Informative messages include when the utility starts and stops and progress messages. All messages are date and time stamped.

If there are syntax errors in command-line invocation, a usage message is printed to the screen.

4.8.12.8 Reports

The Command Line Utility does not produce any reports.

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4.8.13 OMS Configuration Command Line Interface

The Synergy IV OMS Configuration Command Line Interface (hereafter referred to as the OMS Configuration CI) provides DAAC operators with the ability to configure specific parameters for the OMS Server and Database that are not configurable via the OMS GUI. The ability to configure these parameters and settings in this utility is restricted to limited-capability operators.

The OMS Configuration CI is a new capability for Synergy IV. Like most other ECS utilities, the OMS Configuration CI interacts directly with the OMS Database. However unlike many ECS command-line interfaces, the OMS Configuration CI uses an interactive menu system in addition to the ability to pass in command-line options.

Because of the nature and scope of the parameters and settings configurable with this utility, it should be rarely used. Most of the parameters and settings that would commonly and frequently be configured for the OMS as a system are done so via the OMS GUI.

Notes on Operator Capability Levels

In accordance with new Operator GUI security standards, the OMS GUI implements two levels of permissions such that only Full Capability operators have the ability to configure parameters and perform certain actions, while Limited Capability operators are limited to basic functionality as outlined in the OMS GUI section. The intention for the OMS Configuration CI is that it should be limited to operators of this “full capability” level. Certain parameters and capabilities were purposefully omitted from the OMS GUI to further restrict operator interaction due to the sensitivity of these parameters.

The Synergy V OMS Configuration CI provides Full Capability operators with the ability to:

- Configure Order Tracking Details for MSS and OMS
- Set which Production Module to use for a list of ESDT Collections.

4.8.13.1 Starting the OMS Configuration CI

Note: Although this utility is not protected in the same way as the OMS GUI, it was designed to be limited to Full Capability operators. Because it is a UNIX/Linux utility, it will employ standard UNIX/Linux security by protecting the execute permissions.

Script name: EcOmConfig.pl

Script path: /usr/ecs/<MODE>/CUSTOM/utilities/

Installation location: Installed onto the same machine as the OMS Server

Usage: EcOmConfig.pl [-ot <file> -odl <file>] [-help]

No mode is required.

Table 4.8.13-1 lists the options for the OMS configuration CI.

Table 4.8.13-1. Option Summary

Option	Description
-ot <file>	The flat file containing edited order tracking configuration for update in the OMS database (see formatting instructions below)
-odl <file>	The flat file containing the list of ESDT collections to be added or deleted for processing by a certain Production Module, depending on the selection made by the operator
-help	Gives a brief overview of the input options that can be used with this utility.

Note: All the above options can be used concurrently.

4.8.13.2 OMS Configuration CI Operational Overview

Start the CI as specified above, passing in the options and any required flat files. The CI menu will interactively prompt the operator to take certain actions with those files (it will never automatically process files). Select the type of configuration desired from the menu by typing the corresponding number at the prompt.

At first you will see a message stating that mode switching is no longer supported as shown in Figure 4.8.13-1. Press <enter> to continue and proceed to the main menu as shown in Figure 4.8.13-2.

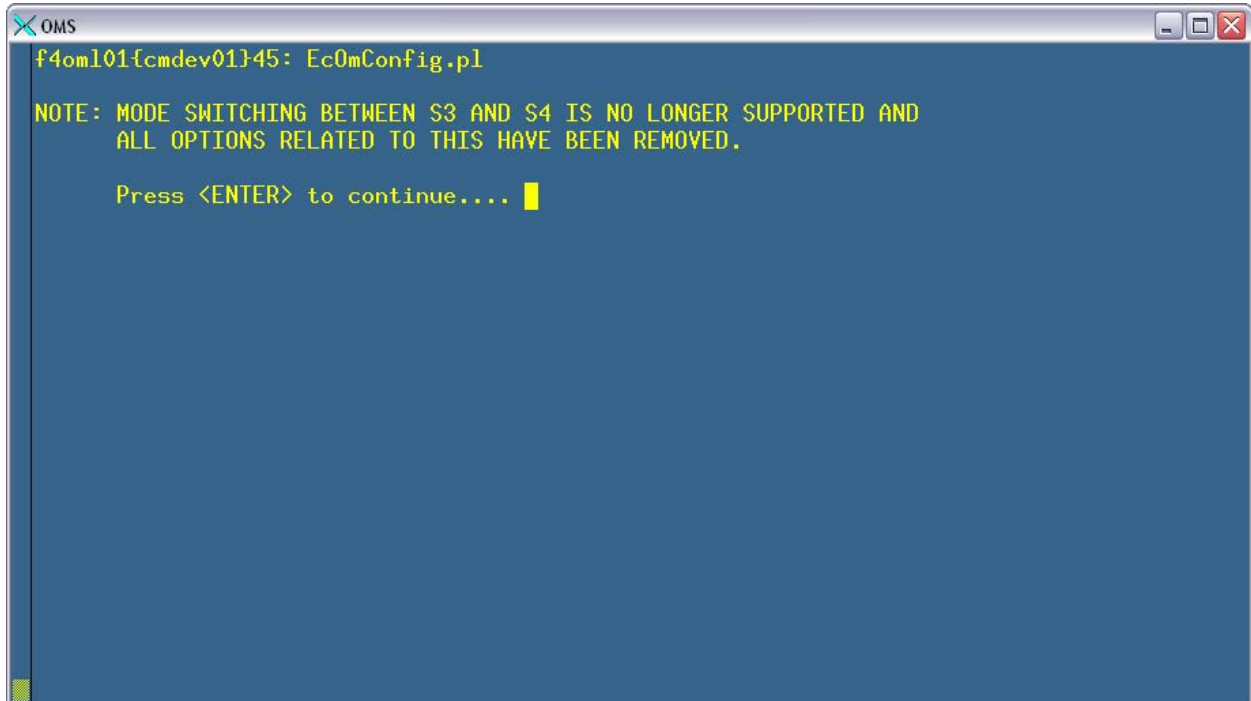


Figure 4.8.13-1. Mode Switching Warning Message

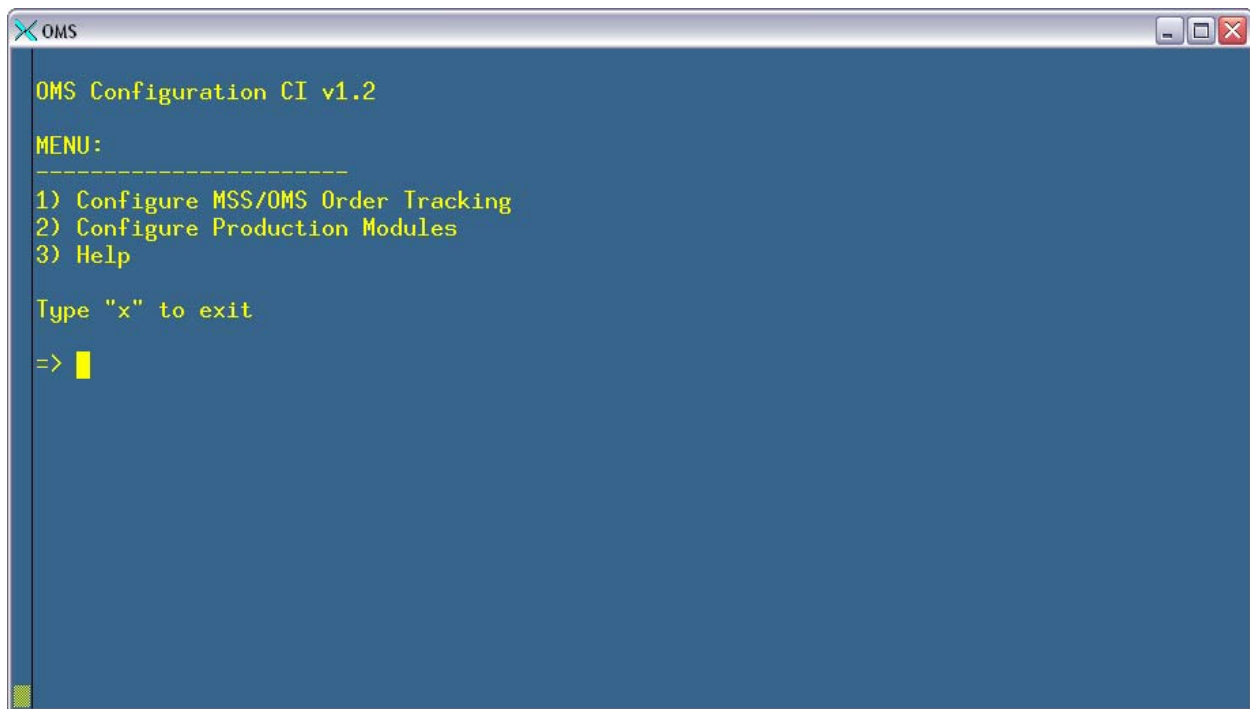


Figure 4.8.13-2. Main Menu

MSS/OMS Order Tracking Configuration

This feature allows the operator to configure how long order-tracking information is kept in the database. This can be configured by media type and order source.

When this item is selected from the main menu, the following submenu displayed in Figure 4.8.13-3 appears:

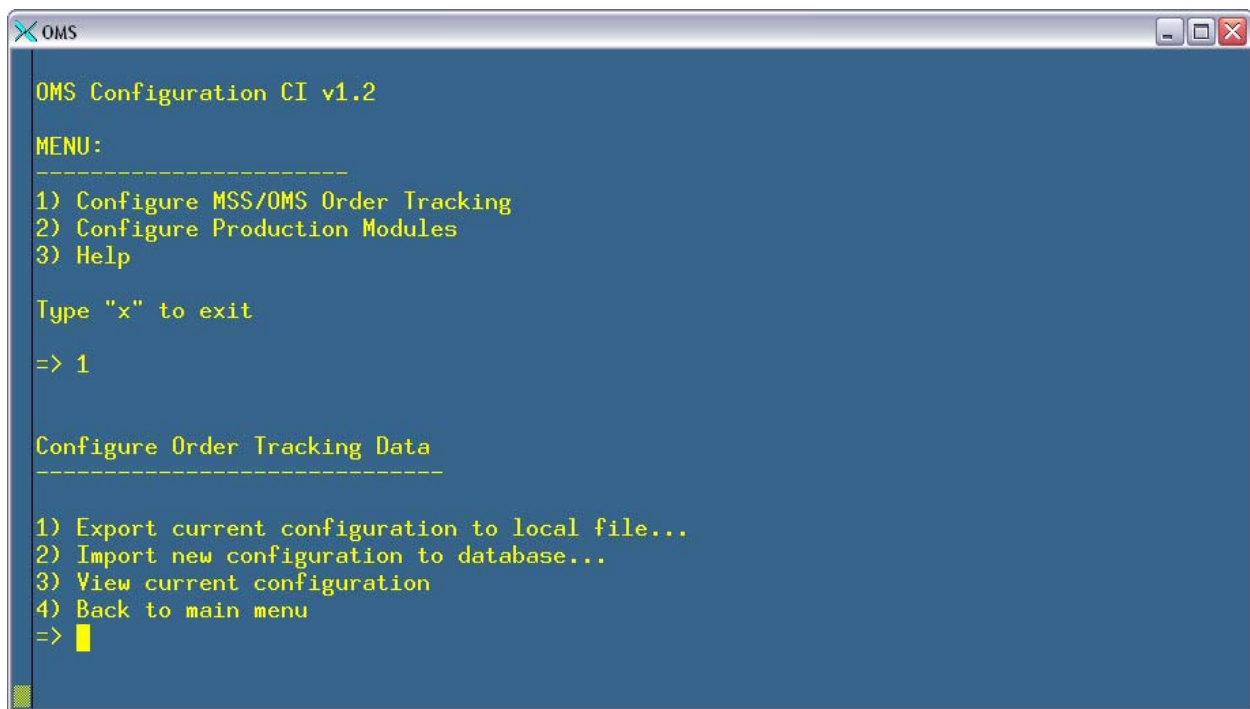


Figure 4.8.13-3. Configure Order Tracking Data Menu Screen (1 of 3)

The process here is to export the current configuration to a local file, edit that file, and import it back into the database.

To **export**, select item 1 ("Export current configuration to local file..."). The utility will create a unique file in the current directory as shown in Figure 4.8.13-4.

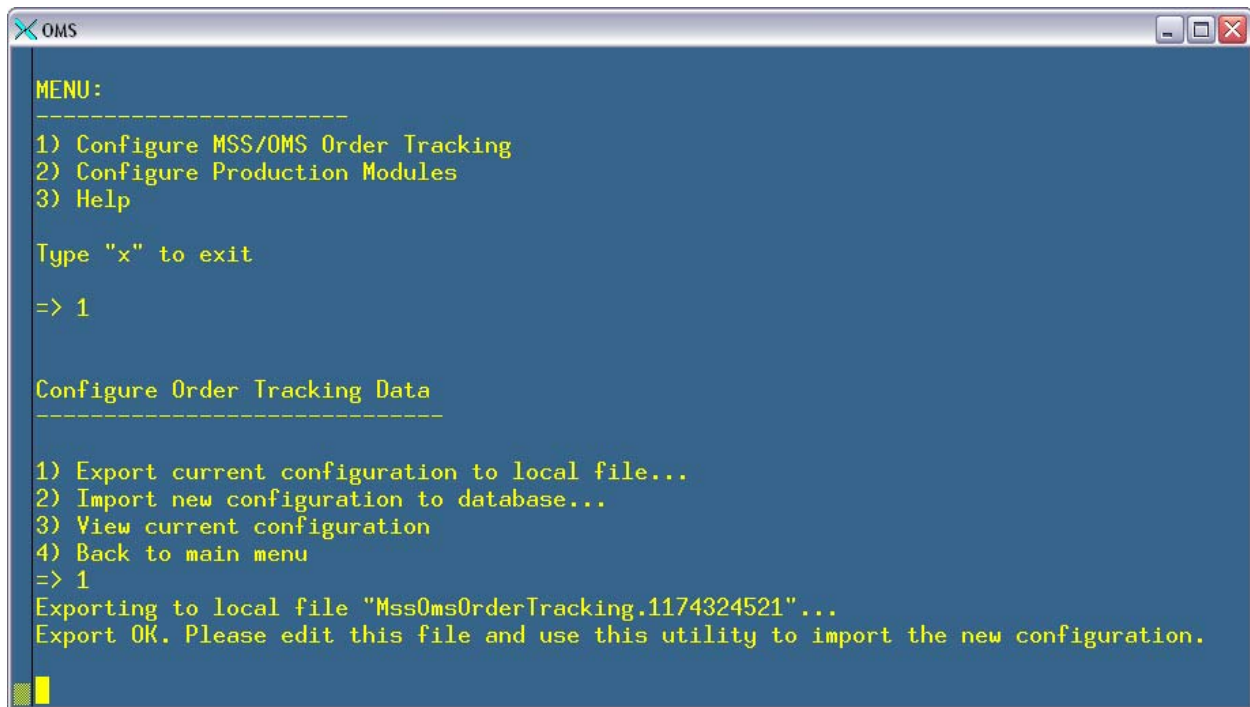


Figure 4.8.13-4. Configure Order Tracking Data Menu Screen (2 of 3)

The saved file contains the configuration for all media types and *all* order sources. It will be in the following format

D	FtpPull	0
S	FtpPull	0
V	FtpPull	0
M	FtpPull	0
D	FtpPush	0
S	FtpPush	0
V	FtpPush	0
M	FtpPush	0
D	CDROM	0
S	CDROM	0
V	CDROM	0
M	CDROM	0
D	DLT	0
S	DLT	0
V	DLT	0

M	DLT	0
D	DVD	0
S	DVD	0
V	DVD	0
M	DVD	0
D	8MM	0
S	8MM	0
V	8MM	0
M	8MM	3
D	scp	0
S	scp	0
V	scp	1.5
M	scp	0

The first item is the order source (D, S, V, or M), followed by the media type, followed by the retention time period in DAYS. See Table 4.8.13-2 below for the order source mappings.

Table 4.8.13-2. Order Source Mappings

Order Source Abbreviation	Order Source
D	Data Pool
S	Spatial Subscription Server
V	V0-Gateway
M	SIPS Machine-to-Machine Gateway

The file can be edited for any changes and then exported to the database. The file will be parsed out and the changes will be submitted to the database by “importing” the file as shown in Figure 4.8.13-5:

To **import** the file, run the utility again and pass in the edited file using the **-ot** option (see the beginning of this section). Select “Configure MSS/OMS Order Tracking” from the main menu and “Export new configuration to database...” from the subsequent menu.

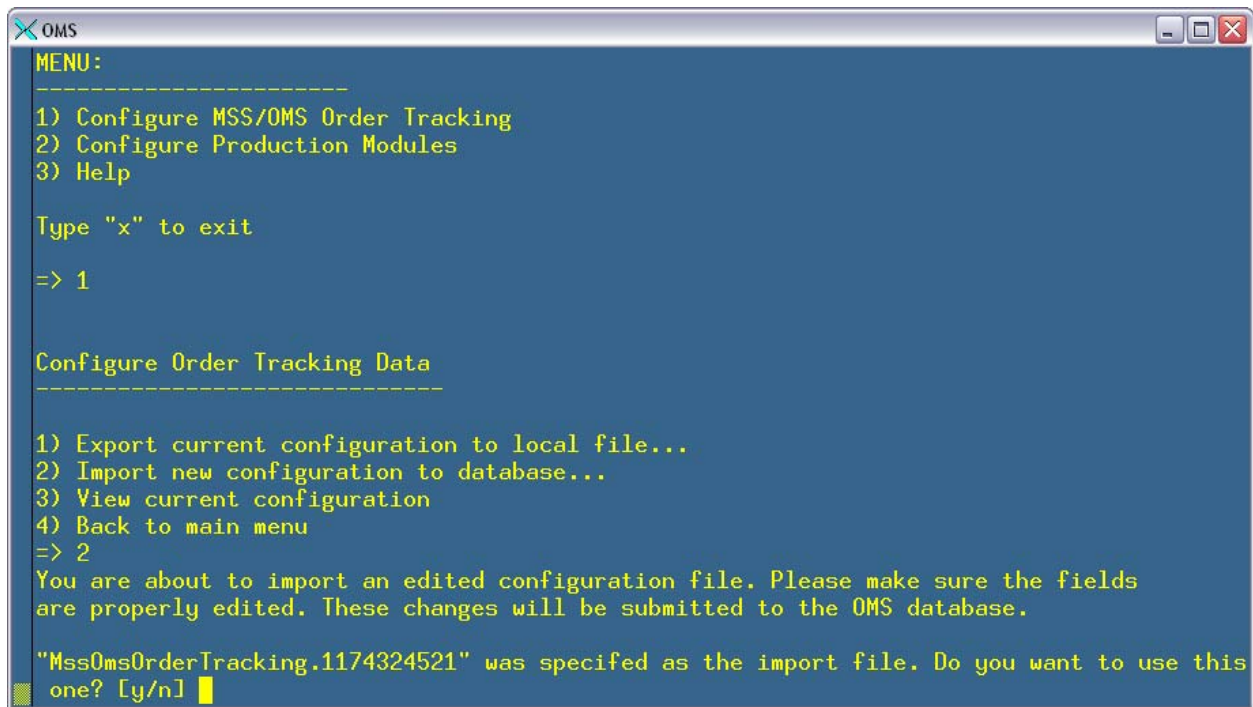


Figure 4.8.13-5. Configure Order Tracking Data Menu Screen (3 of 3)

The file will be checked for correct syntax and the changes will then be submitted.

Configure Production Modules

To configure Production Modules for use with certain ESDT Collections, start the Configuration CI with the **-odl <file>** parameter, where **<file>** is a text file of ESDT Collections, each on its own line. White space is ignored, so multiple lines can separate groups of collections. See example below:

```
MOD11_L2.001

MOD11_L2.002

GDAS_OZF.001

GDAS_OZF.002

.

.

.
```

Then, choose “Configure Production Modules” from the main menu, and the following submenu as shown in Figure 4.8.13-6 appears:

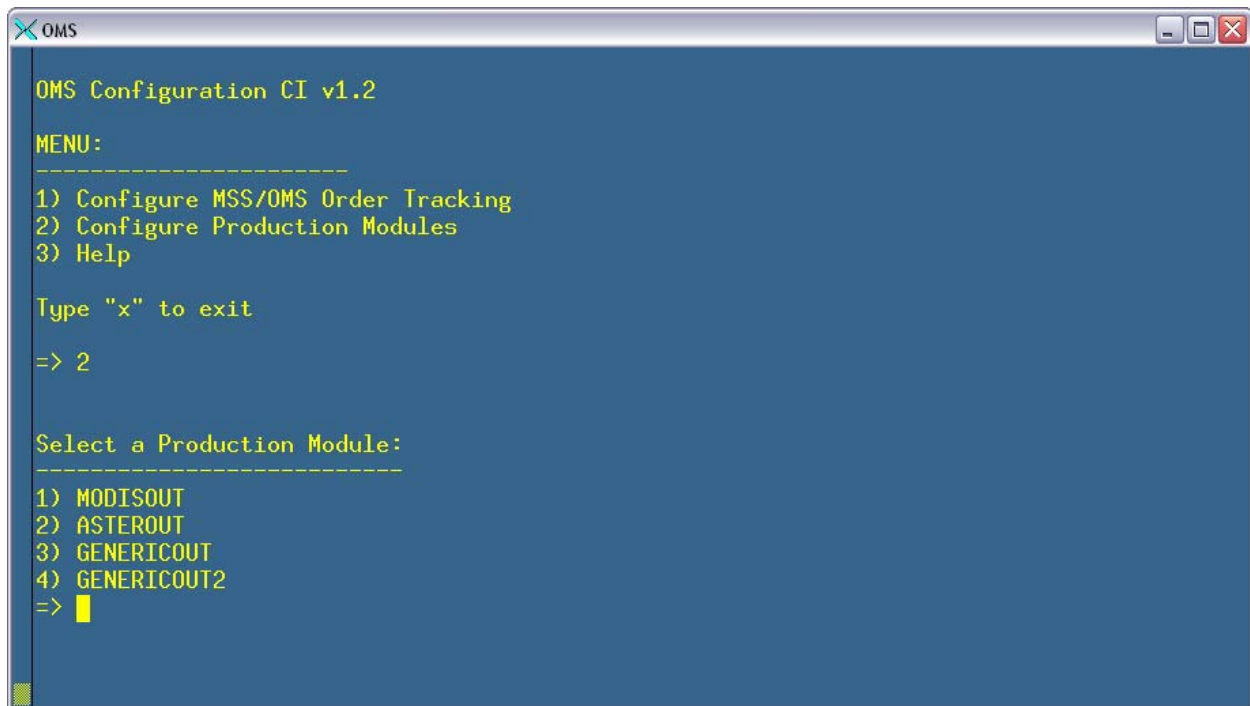
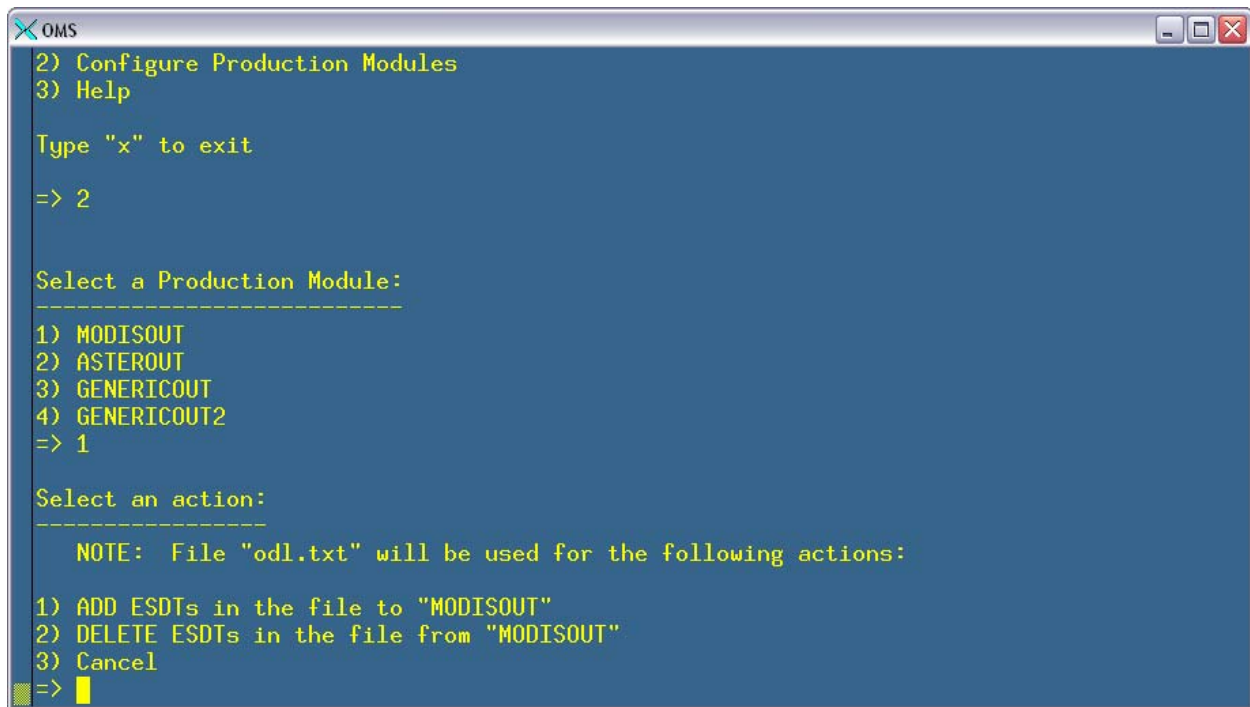


Figure 4.8.13-6. Configure Production Module (1 of 4)

Select the Production Module from which you want to ADD or DELETE the list of ESDT Collections specified at script startup. The following submenu as shown in Figure 4.8.13-7 appears:



```
OMS
2) Configure Production Modules
3) Help

Type "x" to exit

=> 2

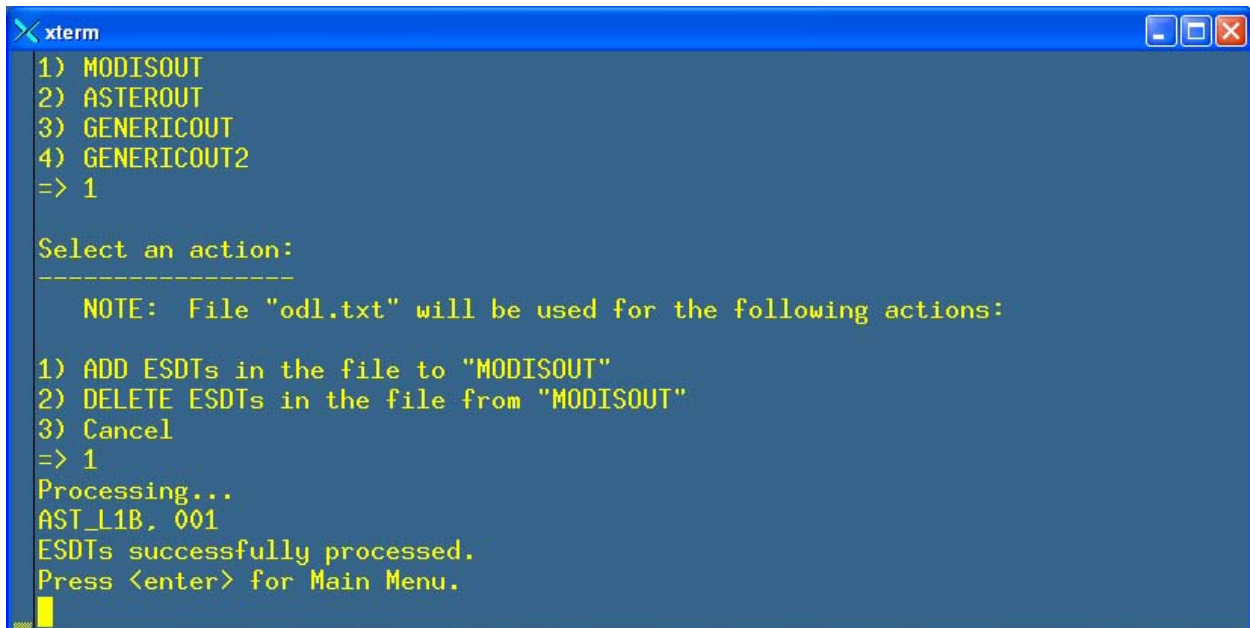
Select a Production Module:
-----
1) MODISOUT
2) ASTEROUT
3) GENERICOUT
4) GENERICOUT2
=> 1

Select an action:
-----
NOTE: File "odl.txt" will be used for the following actions:

1) ADD ESDTs in the file to "MODISOUT"
2) DELETE ESDTs in the file from "MODISOUT"
3) Cancel
=> █
```

Figure 4.8.13-7. Configure Production Module (2 of 4)

Select to either ADD (Figure 4.8.13-8) or DELETE (Figure 4.8.13-9) the ESDT Collections found in the input file to the selected Production Module. One of the following screens will appear:

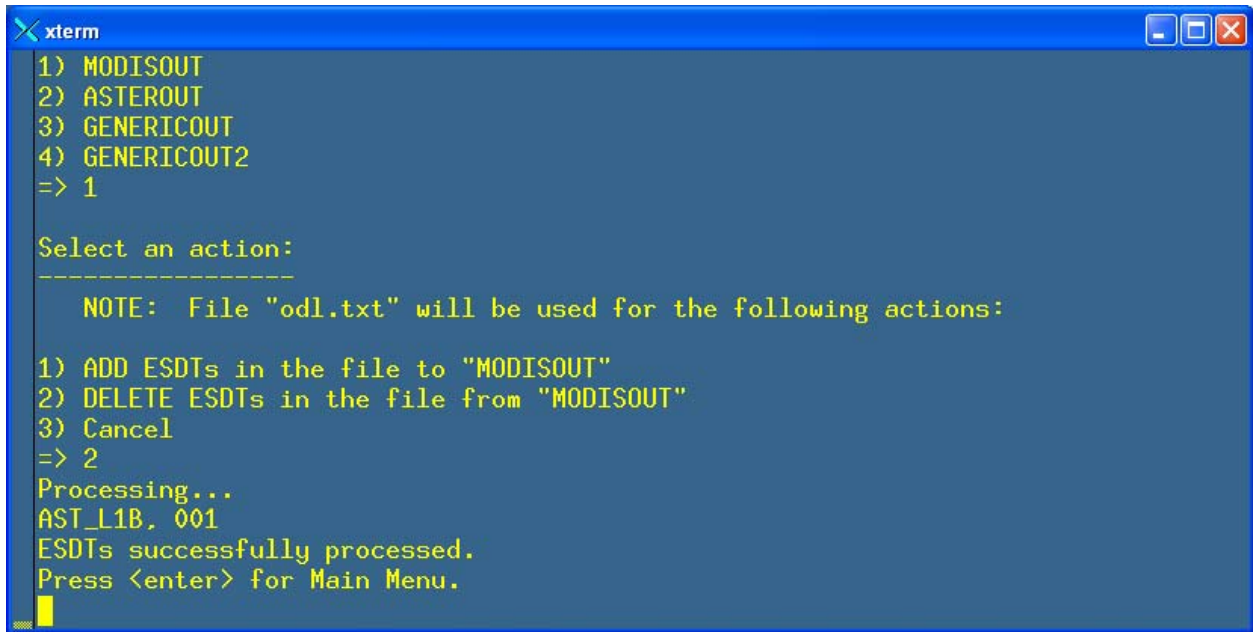


```
xterm
1) MODISOUT
2) ASTEROUT
3) GENERICOUT
4) GENERICOUT2
=> 1

Select an action:
-----
NOTE: File "odl.txt" will be used for the following actions:

1) ADD ESDTs in the file to "MODISOUT"
2) DELETE ESDTs in the file from "MODISOUT"
3) Cancel
=> 1
Processing...
AST_L1B. 001
ESDTs successfully processed.
Press <enter> for Main Menu.
█
```

Figure 4.8.13-8. Configure Production Module (3 of 4)



```
xterm
1) MODISOUT
2) ASTEROUT
3) GENERICOUT
4) GENERICOUT2
=> 1

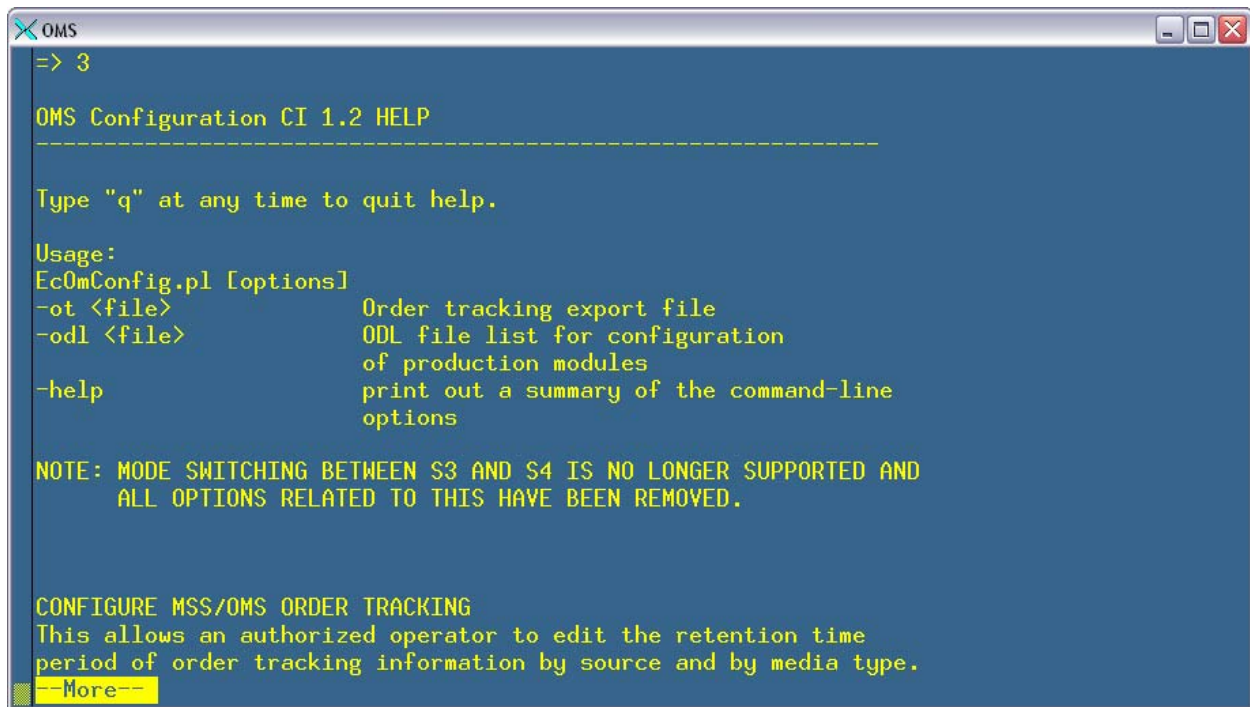
Select an action:
-----
NOTE: File "odl.txt" will be used for the following actions:

1) ADD ESDTs in the file to "MODISOUT"
2) DELETE ESDTs in the file from "MODISOUT"
3) Cancel
=> 2
Processing...
AST_L1B.001
ESDTs successfully processed.
Press <enter> for Main Menu.
```

Figure 4.8.13-9. Configure Production Module (4 of 4)

OMS Configuration CI Help

Select “Help” from the main menu for a complete synopsis of the options and all available functions of the CI. The **–help** option also displays a brief overview of the input options. Figure 4.8.13-10 displays part of the help text. Below is part of the help text.



```
=> 3

OMS Configuration CI 1.2 HELP
-----

Type "q" at any time to quit help.

Usage:
EcOmConfig.pl [options]
-ot <file>      Order tracking export file
-odl <file>     ODL file list for configuration
                of production modules
-help          print out a summary of the command-line
                options

NOTE: MODE SWITCHING BETWEEN S3 AND S4 IS NO LONGER SUPPORTED AND
      ALL OPTIONS RELATED TO THIS HAVE BEEN REMOVED.

CONFIGURE MSS/OMS ORDER TRACKING
This allows an authorized operator to edit the retention time
period of order tracking information by source and by media type.
--More--
```

Figure 4.8.13-10. Help Screen

4.8.13.3 Required Operating Environment

The following environment is required for the OMS Configuration CI to work properly.

The O/S requirements are Linux 2.x.

4.8.13.4 Interfaces and Data types

The OMS Configuration CI exchanges data between the Application (interaction w/ operator) and Sybase, using Perl DBI Modules.

4.8.13.5 Databases

The OMS Configuration CI accesses the OMS and MSS Accountability databases.

4.8.13.6 Special Constraints

There are no special constraints to running the OMS Configuration CI.

4.8.13.7 Outputs

The Configuration CI is an interactive system, so messages and prompts are displayed to the operator on the screen. Error messages are displayed to the screen as well as printed to the log.

4.8.13.8 Events and Messages

The Configuration CI writes status and error messages to the EcOmConfig.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.8.13.9 Reports

The Configuration CI does not generate reports.

4.8.14 Bulk URL Utility

The Bulk URL utility (EcBmBulkURL) exports to ECHO the metadata content of products in the Data Pool, including their ftp URLs, based on an assumption that the product is an ECS data type and that the information about the product in the ECS Science Data Server has already been exported to ECHO by the Bulk Metadata Generation Tool (BMGT).

4.8.14.1 Using the BulkURL Utility

The Bulk URL Utility is executed via a start script (EcBmBulkURLStart, located in the /usr/ecs/<mode>/CUSTOM/utilities directory), which takes two command line parameters. Table 4.8.14-1 provides a description of these parameters.

Table 4.8.14-1. Command Line Parameters

Parameter Name	Required	Description
<mode>	Yes	The operational mode where the utility will be run (e.g., OPS, TS1, TS2)
<"Insert" "Delete">	Yes	Indicates whether the Bulk URL utility should report Data Pool inserts or Data Pool deletions to ECHO
-l <file path>	Optional	Granule ID or file path with ECS IDs to export URLs to ECHO

Examples of command lines for Bulk URL execution are:

EcBmBulkURLStart OPS Insert – runs the Bulk URL utility in OPS mode, with the Insert option

EcBmBulkURLStart TS1 Delete – runs the Bulk URL utility in TS1 mode, with the Delete option

The “Insert” and “Delete” command line options are described below.

4.8.14.1.1 Insert

With the Insert option, the BulkURL utility is run on a daily cron job or from the command line, and should be run after the daily BMGT run has completed (this maximizes the probability that ECHO has already received information about the granules from the BMGT and has added the granules to its inventory).

With the Insert option, the BulkURL utility will export an xml representation of the ftp URL information for science files, metadata files, and browse files associated with Data Pool granules, which meet all of the following conditions:

a) The granule is in a collection which is eligible for export (from Data Pool) to ECHO.

This is determined by whether the bulkExportedFlag = “Y” for that collection in the DICollections table in the Data Pool database. (NOTE: The BMGT determines which collections are eligible for export (from SDSRV) using the EcBmBMGTGroup.xml file in the /usr/ecs/<mode>/CUSTOM/cfg directory on a Linux host, but the BulkURL utility uses the bulkExportedFlag in DICollections instead.) DAAC operations staff should set the

bulkExportedFlag for each collection that is also exported by the BMGT, according to DAAC export policy. The bulkExportedFlag should then only be changed if the export policy changes.

b) The granule was inserted into the Data Pool during the time period specified by the run. This time period is either:

- 1) a time period ending when the BulkURL utility begins its run, if the EcBmBulkURLConfigParams.xml file has doPreviousFlag = true; the time period can be in days (duration = day and count = <number of days>), or hours (duration = hour, and count = <number of hours>); or
- 2) the time period between a specified start and end date/time, if doPreviousFlag = false and <start Date> and <end Date> are specified in the EcBmBulkURLConfigParams.xml file.

c) The granule is a public granule. The intent of the BulkURL utility is only to export Data Pool URLs for granules placed in the public Data Pool – these granules are intended to be available to the general Data Pool user community. Granules which are staged in hidden directories in the Data Pool, for purposes of ingest or distribution, are not exported by the BulkURL utility.

4.8.14.1.2 Delete

With the Delete option, the BulkURL utility will export an XML representation of a list of granuleURs for Data Pool granules, which meet all of the following conditions:

- 1) The granule is in a collection which is eligible for export (from Data Pool) to ECHO.

This is determined by whether the bulkExportedFlag = “Y” for that collection in the DICollections table in the Data Pool database. (See above)

- 2) The granule will be deleted from the Data Pool in this (possibly two-part) run of the Cleanup utility (i.e., the granule is represented in the DIFilesToBeDeleted table in the Data Pool database)

- 3) The granule is a public granule.

The BulkURL utility is run with the “Delete” option as an integral part of the Data Pool Cleanup utility. When the Cleanup utility is run, the operator chooses whether to run the cleanup as a one pass (setting the echo mode command line parameter to “deleteall”) or two-pass (setting the echo mode command line parameter to “predelete” on the first pass, and setting the echomode command line parameter to “finishdelete” on the second pass) process.

In the one-pass process (echomode = “deleteall”), Cleanup will delete expired granules from the Data Pool and will invoke the Bulk URL utility to notify ECHO of the deletions. If the one pass Cleanup process is used, it will be possible for a granule to be deleted from the Data Pool before ECHO removes the granule from its inventory, thus making it possible for an ECHO user to receive an error when attempting to access an already-deleted granule.

In the two-pass process, during the first pass (echomode = “predelete”), Cleanup will determine which granules are expired, will invoke the Bulk URL utility to notify ECHO of their pending deletion, but will not actually delete the granules. After a time lag during which ECHO removes the to-be-deleted granules from its inventory, Cleanup is run in the second pass (echomode = “finishdelete”) and all of the to-be-deleted granules are actually removed from the Data Pool. The Bulk URL utility is not invoked during the second pass of the Cleanup utility.

Use of the Cleanup echo mode command line parameter is described in more detail in the Data Pool Cleanup Utility section of this 609 document (Section 4.9.6).

4.8.14.1.3 Input (-I)

Bulk URL can also be run with a -I (input) option. The input is a list of ECS granule Ids either on the command line or path to the file containing a list of ECS granule IDs.

```
EcBmBulkURLStart OPS Insert -I <granId's or path to a file with granIDs>
```

```
EcBmBulkURLStart OPS Delete -I <granId's or path to a file with granIDs>
```

Input could be a ECS granule ID or a list of granule Ids like

```
EcBmBulkURLStart OPS Insert -I 12345 or
```

If more than one granule Id is provided on the command line they should be enclosed in double quotes like

```
EcBmBulkURLStart OPS (Insert or Delete) -I "12345 23456 98765"
```

Input can also be provided with the path of a file containing ECS granule IDs.

```
EcBmBulkURLStart OPS (Insert or Delete) -I /usr/ecs/OPS/CUSTOM/data/input.txt
```

Running BulkURL utility in Insert mode with Input option will export an xml representation of the ftp URL information for science files metadata files and browse files associated with Data Pool granules that are valid ECS granules, Public and bulkExportedFlag = "Y" for that collection in the DICollections table in the Data Pool database.

Running BulkURL utility in Delete mode with Input option will export an xml representation of a list of granuleURs for Data Pool granule deletions that are valid ECS granules, Public, expired in Data Pool (expiration date is prior to the time BulkURL is run with this option) and bulkExportedFlag = "Y" for that collection in the DICollections table in the Data Pool database.

4.8.14.2 Bulk URL Utility Configuration File

The Bulk URL utility uses an xml configuration file, EcBmBulkURLConfigParams.xml, located in the /usr/ecs/<mode>/CUSTOM/cfg directory on Linux host. The configuration parameters are stored in xml format (<parameter name>parameter value</parameter name>), with each

parameter/value pair as a separate line entry in the file. Table 4.8.14-2 describes the configuration parameters that can be set by the DAAC operations staff.

Table 4.8.14-2. Configuration Parameters (1 of 2)

Parameter Name	Value Description
debug, level	Debug level for debug log
log, level	Logging level of the application log
jdbc, url	"jdbc:sybase:Tds:<sybase server host name>:<sybase server port>/<sybase server name>"
insert, previousRange, doPreviousFlag	"true" if the time period for which the Bulk URL utility reports Data Pool inserts or deletions to ECHO is the time period ending when the run begins, and of duration indicated by the <duration> and <count> parameters; "false" if the time period of the run is specified using the <startDate> and <endDate> parameters
insert, previousRange, duration	"day" if the time period of the run is measured in days; "hour" if the time period of the run is measured in hours; only valid if doPreviousFlag = true.
insert, previousRange, count	Integer indicating how many days or hours (depending on value of <duration> parameter) will be in the time period of the run; only valid if doPreviousFlag = true
insert, startDate	The start date of the time period of the run; only valid if doPreviousFlag = false
insert, endDate	The end date of the time period of the run; only valid if doPreviousFlag = false
owsdeletes, isOwsDeploymentSite	"true" if the site is enabled for OWS; "false" otherwise
outputDirectory	Directory where output file from Bulk URL utility will be placed for default ftppull access; of the form /datapool/<mode>/user/<filesystem>/URLExport
socksProxyHost	Proxy host (firewall ip address) used by FTP utils to ftp the generated xml files.
socksProxyPort	Proxy port (firewall port) used by FTP utils.
ftpHost	Full path name of the host where the Data Pool runs; <ftpHost> will be used to construct the Data Pool urls in the Bulk URL utility's output file.
ftpDestHost	Full path host name of the ECHO destination host where the Bulk URL output file will be pushed
ftpPort	ftp port number at ECHO (normally 21)
ftpDestination	Full path directory and file name on the ftpDestHost where the Bulk URL output file will be pushed
ftpUser	"anonymous:" (this is the account to be used for ftp access at ECHO)
ftpPassword	Anonymous ftp password for FTP access at ECHO(this should be an email address)

Table 4.8.14-2. Configuration Parameters (2 of 2)

Parameter Name	Value Description
ftpWait	Number of seconds to wait before retrying a failed ftp
ftpRetry	Number of times to try to ftppush the Bulk URL output file to the ftpDestination on the ftpDestHost. If, after this number of tries, the ftppush is still unsuccessful, an email will be sent to the <toEmail> email address indicating that the file could not be pushed, but is available for pull at <output Directory>
fromEmailAddress	The DAAC sender address for email notifications of unsuccessful ftppush of Bulk URL output file.
fromEmailHost	Email host of the sender.
toEmail	Address to which email should be sent indicating that ftppush of the Bulk URL output file has been unsuccessful. Note that <toEmail> may contain several email addresses separated by commas.
dataCenterID	Will be used as prefix to output file names to indicate to ECHO the source of the output file; e.g. "PVC", "LARC", etc.
dtdLocation	Web location address where dtd files are installed
delFileName	"true" or "false"; if <delFileName> is set to true, the output files generated by the Bulk URL utility are deleted from the <outputDirectory> after a successful ftp push to the <ftpDestination> directory.

4.8.14.3 Required Operating Environment

The Bulk URL Utility runs on a Linux platform.

4.8.14.4 Interfaces and Data Types

Table 4.8.14-3 lists the supporting products that this tool depends upon in order to function properly.

Table 4.8.14-3. Interface Protocols

Product Dependency	Protocols Used	Comments
Data Pool database	SQL	Via SQL server machines

4.8.14.5 Special Constraints

The Bulk URL utility runs only if the Data Pool database server is running and if the Data Pool database is available. It also assumes the stored procedures are present.

4.8.14.6 Outputs

The BulkURL utility exports Data Pool information to ECHO in a file called <DAAC>InsURL.<datetimestamp>.xml (with the Insert option) or <DAAC>DelURL.<datetimestamp>.xml (with the Delete option). These output files are pushed to the ftp destination configured in EcBmBulkURLConfigParams.xml (<ftpDestHost>, <ftpDestination>). If, after a configurable number of tries (<ftpRetry>), the file cannot be pushed to this location, an email will be sent to a configurable email address (<toEmail>;

note that <toEmail> may contain several email addresses separated by commas) indicating that the file could not be pushed, but is available for pull at /datapool/<mode>/user/<filesystem>/URLExport.

If <delFileName> is set to true in EcBmBulkURLConfigParams.xml, the xml files generated by the BulkURL utility are deleted from the /datapool/<mode>/user/<filesystem>/URLExport directory after a successful ftp push to the <ftpDestination> directory.

A sample Bulk URL output file with the **insert** option is:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ProviderAccountService SYSTEM
"http://http://f4dpl01.east.hitc.com:24211/BMGTUpdateMetadata.dtd">

<ProviderAccountService>
  <UpdateMetadata>
    <Granule>
      <Target>
        <ID>SC:MOD13A2.004:13576</ID>
        <ProviderLastUpdateDateTime>2007-04-05
08:56:53.6</ProviderLastUpdateDateTime>
        <SaveDateTimeFlag><DONTSAVE/></SaveDateTimeFlag>
      </Target>

      <Add>
        <QualifiedTag>OnlineAccessURLs/OnlineAccessURL/URL</QualifiedTag>
        <MetadataValue>ftp://f4dpl01/FS1//MOLT/MOD13A2.004/2007.01.01/lab
test_9846</MetadataValue>
      </Add>

      <Add>
        <QualifiedTag>OnlineAccessURLs/OnlineAccessURL[URL="ftp://f4dpl01
/FS1//MOLT/MOD13A2.004/2007.01.01/labtest_9846"]/MimeType</Qualif
iedTag>
        <MetadataValue>application/x-hdfeos</MetadataValue>
      </Add>

      <Add>
        <QualifiedTag>GranuleOnlineResources/OnlineResource/OnlineResourc
eURL</QualifiedTag>
        <MetadataValue>ftp://f4dpl01/FS1//MOLT/MOD13A2.004/2007.01.01/lab
test_9846.xml</MetadataValue>
      </Add>

      <Add>
        <QualifiedTag>GranuleOnlineResources/OnlineResource[OnlineResourc
eURL="ftp://f4dpl01/FS1//MOLT/MOD13A2.004/2007.01.01/labtest_9846
.xml"]/OnlineResourceType</QualifiedTag>
        <MetadataValue>METADATA</MetadataValue>
      </Add>

      <Add>
        <QualifiedTag>GranuleOnlineResources/OnlineResource[OnlineResourc
eURL="ftp://f4dpl01/FS1//MOLT/MOD13A2.004/2007.01.01/labtest_9846
.xml"]/OnlineResourceMimeType</QualifiedTag>
```

```

        <MetadataValue>text/xml</MetadataValue>
      </Add>
    </Granule>
  </UpdateMetadata>
</ProviderAccountService>

```

A sample Bulk URL output file with the **delete** option is:

```

<ProviderAccountService>
<UpdateMetadata>
  <Granule>
    <Target>
      <ID>SC: MOD11A1.004: 127680</ID>
      <ProviderLastUpdateDateTime>2007/04/11
11:37:51</ProviderLastUpdateDateTime>
      <SaveDateTimeFlag>
        <DONTSAVE/>
      </SaveDateTimeFlag>
    </Target>
    <Delete>
      <QualifiedTag>OnlineAccessURLs</QualifiedTag>
    </Delete>
  </Granule>
</UpdateMetadata>
</ProviderAccountService>

```

4.8.14.7 Event and Error Messages

Usage errors will be displayed to the screen. Processing error messages are written to the log files.

4.8.14.8 Reports

None

4.8.14.9 Logs

The utility produces two log files in the /usr/ecs/<mode>/CUSTOM/logs directory:

- 1) An application log file called EcBmBulkURL.ALOG.
- 2) A debug log called EcBmBulkURLDebug.log.

If these log files already exist, the files are time stamped and saved in the logs directory, and new logs are created. If there are no existing logs files by these names, new log files with these names will automatically be created when the Bulk URL Utility is invoked.

4.8.14.10 Recovery

The Bulk URL utility does not perform automatic recovery operations. If the log file indicates that the utility failed to run to successful completion, the utility should be reinvoked.

(NOTE: If the Data Pool Cleanup utility fails to invoke the Bulk URL utility, the Cleanup utility will create a recovery file. Whenever the Bulk URL utility is invoked with the “Delete” option, it will always process Cleanup’s recovery file first, if it exists. The path and filename of the

Cleanup recovery file is in the EcBmBulkURLConfigParams.xml file; see the delRecoveryFile parameter (not configurable via ECSAssist).)

4.8.14.11 Sybase Error Handling

If a Sybase error occurs, the actual Sybase error string will be displayed on the screen and in the log. Possible Sybase errors are that the database server is unavailable, that the connection to the database was dropped, or that there was an error executing the stored procedure. In the event of a Sybase-sourced error, the utility will immediately stop running.

4.8.15 OmPdCleanup GUI

This Tool Command Language (Tcl) GUI cleans up or archives files that are no longer needed for reference, reuse, or troubleshooting. These include:

- EcOmPdModule debug logs
- order summary files
- tape label files
- QC reports and logs.

These files can be removed or archived to different directories at intervals using the OmPdCleanup GUI. Other artifacts from Physical Media production are cleaned up regularly after each request is shipped or canceled by the Order Manager Server in a call to OmPdCleanup.pl. OmPdCleanup.pl, which runs on the physical media box, cleans up the staging directory, the Rimage control file, the ISO image file, and the files used to build the jewel case insert file.

4.8.15.1 OmPdCleanup GUI Location

The OmPdCleanup GUI is located under /usr/ecs/\$MODE/CUSTOM/utilities

The location of the archive directory is configurable in /usr/ecs/\$MODE/CUSTOM/cfg/EcOmPdModule.CFG

Table 4.8.15-1 describes the common ECS operator functions performed through the OmPd Cleanup Manager.

Table 4.8.15-1. OmPd Cleanup Manager Common Operator Functions (1 of 2)

Operating Function	GUI Controls	Description
Remove or Archive DebugLog files	Radio button & edit field	Delete or archive the individual debug logs left by EcOmPdModule. The location of these files is configurable in /usr/ecs/\$MODE/CUSTOM/cfg/EcOmPdModule.CFG but are usually found in /usr/ecs/MODE/CUSTOM/logs on the dig06 box. The names of these files are Request_Volume.log
Remove or Archive the Summary files	Radio button & edit field	Delete or archive the summary files. The location of these files is in <PMD_Root_DIR>/summary
Remove or Archive the Label Directory files	Radio button & edit field	Delete or archive the Jewel Case Insert files, tape label files, and any other files left under <PMD_Root_DIR>/label from an incomplete request cleanup
Remove or Archive the QC Reports and the QC logs	Radio button & edit field	Delete or archive the QC log, the QC Summary file, and any of the individual QC Reports. These are found under: <PMD_Root_DIR>/QC

Table 4.8.15-1. OmPd Cleanup Manager Common Operator Functions (2 of 2)

Operating Function	GUI Controls	Description
Remove staged files	Checkbox & edit field	This removes any files under <PMD_Root_DIR>/PM. This should only be left over staging directories and the OmPdCleanup.pl log
Setting the cleanup time.	Radio button & edit field	Sets the daily cleanup time for the crontab.

4.8.15.2 OmPdCleanup GUI Startup

1. Make sure that a crontab for cmshared exists on the dig06 box – the application will give an error if the crontab file does not exist.
2. If running for the first time remove ~/.pdscleanup if it exists.
3. setenv \$MODE
4. Make sure that your DISPLAY variable is set.
5. From the command line run: /usr/ecs/\$MODE/CUSTOM/utilities/OmPdCleanupGUI
pdscleanup

When the OmPdCleanup GUI starts up it reads ~/.pdscleanup. If this file exists and belongs to an earlier version the GUI may complain and fail to come up. If this is the case, delete the existing ~/.pdscleanup.

Legacy PDS Cleanup GUI

It should not conflict with the legacy PDS cleanup manager because the legacy cleanup manager should be editing the pds' account crontab and the pdscleanup file in the pds account home directory.

Make sure there is an existing crontab file. It will fail on exit if the crontab file does not already exist. If this is the case just run crontab -e and enter some commented text. Then rerun OmPdCleanup GUI.



Figure 4.8.15-1. OmPdCleanup GUI Dialog Box

Running the GUI creates 3 files:

- ~/.pdscleanup
 - Startup options
- /usr/ecs/\$MODE/CUSTOM/utilities/cleanup.sh
 - Contains the ksh commands to move or delete files over a certain age
- crontab

4.8.15.3 Trouble Shooting

Set environment variables DISPLAY and MODE

When it starts up it reads ~/.pdscleanup. If this file exists and belongs to an earlier version the GUI may complain and fail to come up. If this is the case, delete the existing ~/.pdscleanup.

It should not conflict with the legacy PDS cleanup manager because the legacy cleanup manager should be editing the pds' account crontab and the .pdscleanup file in the pds account home directory.

It will fail on exit if the crontab file does not already exist. If this is the case just run crontab -e and enter some commented text. Then rerun OmPdCleanup GUI.

4.8.15.4 OmPdCleanup GUI Main Screen

The OmPdCleanup GUI dialog box (Figure 4.8.15-1) contains options to delete or archive debug logs, summary files, label files and QC artifacts. It also allows for the deletion of stale staging directories resulting from incomplete runs. Lastly the dialog box has fields to direct the timing of the cron.

4.8.15.5 Required Operating Environment

The following environment is required for the OmPdCleanup GUI to work properly:

- The O/S requirement is the Linux platform.

4.8.15.6 Databases

The OmPdCleanup GUI does not access any databases.

4.8.15.7 Special Constraints

There are no special constraints to running the OmPdCleanup GUI.

4.8.15.8 Outputs

There are no outputs from the OmPdCleanup GUI except for the error messages.

4.8.15.9 Event and Error Messages

The OmPdCleanup GUI writes no status and error messages.

4.8.15.10 Reports

The OmPdCleanup GUI does not generate reports.